



B.A., B.Ed. (Semester – VI) Examination, April/May 2018
GEOGRAPHY (Practical)
Remote Sensing and GIS

Duration : 4 Hours

Total Marks : 100

- Instructions :** 1) **All questions are compulsory.**
2) **Figures to the right indicate maximum marks.**
3) **Use of non-programmable calculator is allowed.**

1. A) Define the following terms : 5
- i) Mosaic.
 - ii) Spatial Resolution.
 - iii) Fiducial Mark.
 - iv) Photo Scale.
 - v) Active sensor.
- B) Calculate the following : 5
- i) Find out the focal length of a camera if the flying height of the plane is 2 miles and the scale of the photo is 1 : 10560.
 - ii) Find out the total area cover by photo when the photo is of 15 cms × 10 cms and the photo scale is 1 : 60000.
- C) Answer the following : 10
- i) Write applications of remote sensing with reference to forests and water resources.
 - ii) Draw a well labelled diagram to show oblique photography.
2. Interpret the following aspect by using the elements of aerial photography of the photograph given to you. 25
- a) Marginal information.
 - b) Settlement pattern and types.
 - c) Drainage system.
 - d) Topographic features.
 - e) Transport network.



3. A) Explain in detail **any two** of the following : 10
- a) Satellite Image
 - b) Sun synchronous orbit
 - c) Active and passive sensors
 - d) Attribute data.
- B) Draw a neat sketch of electromagnetic radiation and explain the importance of different components of EMR. 10
4. Attempt **any five** of the following : 25
- i) Write a detailed note on the Hardware components of GIS.
 - ii) Explain vector data format with suitable diagram.
 - iii) Describe the nature of spatial data.
 - iv) Give an account of geostationary satellites.
 - v) Comment on data storage and database management.
 - vi) Write on evolution of GIS.
5. Study tour report and viva voce. 10